Application Serial No.: 09/902,340 Reply to Office Action of May 2, 2003

Patent Attorney Docket No. CU-2592

Amendments To The Claims

(In The Revised Format)

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

- 1. (Currently Amended) An optical data recording medium, comprising:
 - a light transmittable plastic substrate; and
 - a recording layer formed on said plastic substrate and containing a hydrogenated amorphous material that is selected from a group consisting of hydrogenated amorphous carbon; hydrogenated amorphous silicon carbide, hydrogenated amorphous boron earbide, hydrogenated amorphous boron nittide, hydrogenated amorphous silicon, and hydrogenated amorphous germanium.

wherein said recording layer of said hydrogenated amorphous carbon decomposes and releases hydrogen at a temperature greater than 300°C, whereas said plastic substrate is softened at a temperature in a range of from 80°C to 300°C so as to permit formation of recesses in said plastic substrate as a result of the hydrogen released by said hydrogenated amorphous carbon; and

wherein said recording layer is formed on said plastic substrate via plasma
assisted chemical vapor deposition techniques by decomposition of a hydrocarbon with a
pressure of 20 to 400 milli-Torrs and a substrate bias voltage in a range of from 250 to
550 volts.

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- 2. (Canceled)
- 3. (Canceled)
- 4. (Original) The optical data recording medium of Claim 1, wherein said hydrogenated amorphous material contains 5 to 60 atomic percent hydrogen.
- 5. (Canceled)
- 6. (Original) The optical data recording medium of Claim 1, wherein said recording layer has a thickness in a range of from about 30 nm to 2500 nm.
- 7. (Original) The optical data recording medium of Claim 1, wherein said plastic substrate is made from a resin material selected from a group consisting of acrylic resins, polycarbonate resins, epoxy resins, and polyolefin resins.
- 8. (Canceled)
- 9. (Original) The optical data recording medium of Claim 1, further comprising a reflective layer formed on said recording layer such that said optical data recording medium has a reflectivity greater than 40% in response to a wavelength of from 300 to 900 nm.

10-14. (Canceled)